

FOR INDUSTRY



FOR THE HOME

For maximum
diffused, low-cost
daylighting...



Johns-Manville
Corrulux®

SHATTERPROOF FIBER GLASS PANELS

Johns-Manville *Corrulux*[®]

SHATTERPROOF TRANSLUCENT BUILDING PANELS

Shatterproof Corrulux translucent building panels provide lower cost daylighting for industrial, commercial and residential buildings. Lightweight Corrulux panels are composed of extremely tough, weather-resistant and light-stabilized resins reinforced with millions of high strength glass fibers. Each panel is manufactured in strict accordance with quality standards and exceeds those of the Society of the Plastics Industry.

Johns-Manville Corrulux has pioneered its field and has consistently led the research and development of product improvements. Many of today's product standards are a result of this continuous research for a better product. When you specify Johns-Manville Corrulux, for new construction or modernization, you are assured of the best translucent panel on the market consistent with an economical price.

J-M CORRULUX HAS ALL THESE PLUS ADVANTAGES

COLORFUL! Distinctive built-in colors and gem-like finishes for contemporary styling, scientifically engineered with soft diffusion for reduced eye strain.

DURABLE! Shatterproof, will not rot or mildew, unaffected by most industrial fumes, resists surface erosion.

ECONOMICAL! Light weight, easy to handle and install. Requires minimum framing, minimum maintenance. No special tools required for installation.

SAFE! Shatterproof and strong, Corrulux cannot splinter, resists flying objects for personnel protection. Eliminates hazards of glass breakage.

HIGH STRENGTH & IMPACT RESISTANCE! Actual loading tests indicate that 2½", 2.67" and 4.2" corrugations will support uniform loads of 40 pounds per square foot with a 2.5 factor of safety when fastened in accordance with specifications. Corrulux is highly resistant to rocks, hailstones and typical factory vibrations. A two pound steel ball, dropped from a four-foot height on ordinary structural grade Corrulux material, creates no visible damage. (Shatterproof test in accordance with Federal Specification LP406b. Method No. 1073.2)

FIRE RESISTANCE! Corrulux has an ignition point of 850°—900° F., according to laboratory tests. Standard Corrulux, when ignited, burns slowly—the blanket of fiber glass reinforcement serves as a barrier to flame breakthrough. When building codes specify Underwriter's label or Factory Mutual approval, Corrulux Pyro-Panl should be

used. UL flame-spread rating: Granitized 75-85, Smooth 70-75. Complete Test Reports available.

CHEMICAL RESISTANT! Corrulux is immune to the effects of moisture or brine . . . will not rust, scale, mildew or rot. It is not appreciably affected by immersion in mild alkalis or in contact with most industrial fumes. For installations exposed to highly concentrated corrosive fumes, direct inquiry should be made to the Corrulux distributor or to Johns-Manville.

THERMAL STABILITY! The strength and shatter resistance qualities of Corrulux are not appreciably affected over a temperature range of —65° F to 212° F, however Corrulux is not recommended for continuous service in temperatures above 200° F.

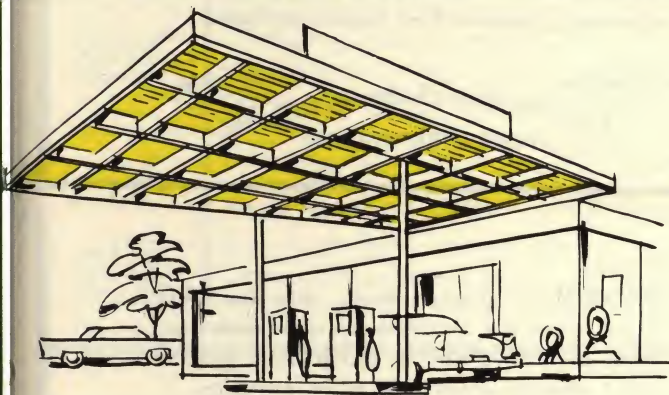
LOW HEAT TRANSMISSION! By conduction; the thermal conductivity of Corrulux is approximately 2-3 BTU/hr./sq. ft./°F/ inch of thickness or approximately 40% of ¼" plate glass. (Comparative: Glass 5-6, Steel 312, Aluminum 1416.) By radiation: Approximately 60% average for Maxlite, Skylight Green and Sky Blue, 45% average for all other colors. (Comparative: ¼" window glass 82%, ¼" heat absorbing glass 45%.) U Factor: (Standard Sidewall conditions): 1.2 BTU/hr./sq. ft./°F.

CONTROLLED LIGHT TRANSMISSION! Corrulux has visual light transmission up to 85% of air (100%) depending on color (Fed. Spec. LP-406b), Method 3021, or SPI Transmissometer Method). Controlled diffusion for glare reduction . . . eliminates "spotlighting", deflects light at all angles for evenly-lighted, shadowless areas.

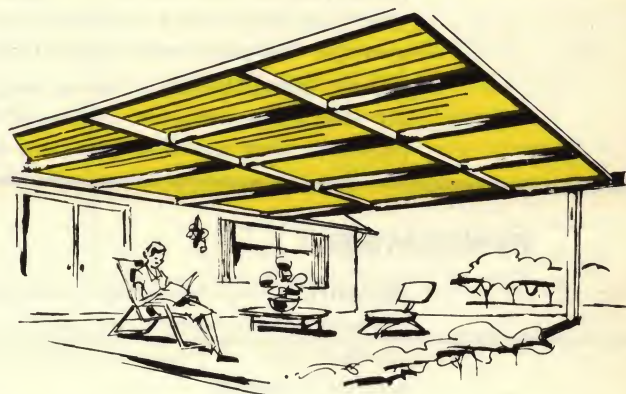
Johns-Manville *Corrulux*®

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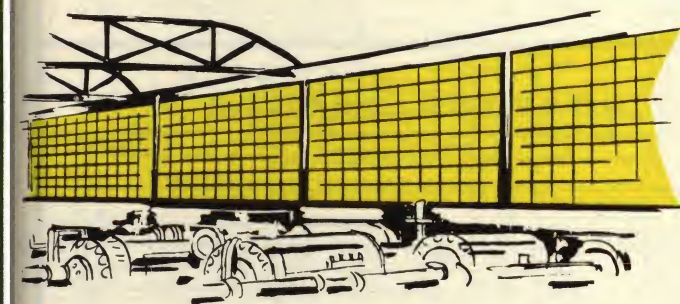
OFFERS UNLIMITED DESIGN POSSIBILITIES



COMMERCIAL Store Fronts • Signs • Luminous ceilings
Office partitions • Curtain walls • Marquise • Displays and
exhibits • Decorative paneling • Storm shutters



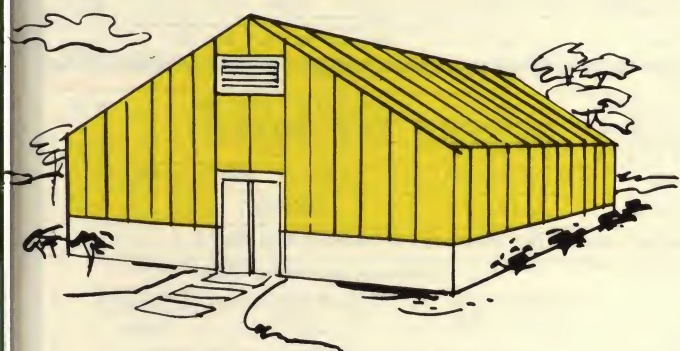
RESIDENTIAL Patios • Carports • Awnings • Room
dividers • Movable screens • Windbreaks • Fences • Shower
doors • Tub enclosures • Decorative paneling



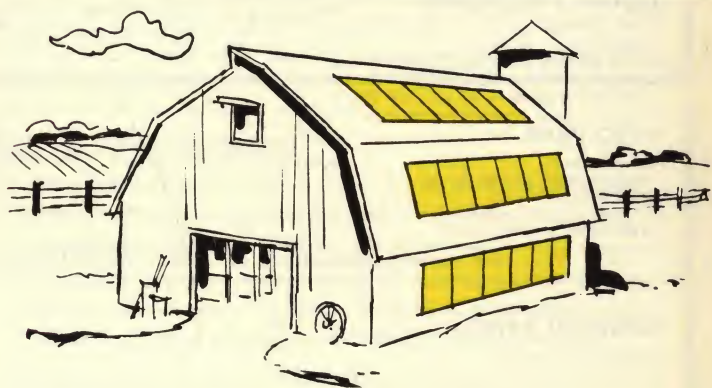
INDUSTRIAL Skylights • Sidelights • Glazing • Partitions
Lighting fixtures • Protective shields • Canopies • Truck
bodies and trailers • Ceilings



INSTITUTIONAL Glazing • Partitions • Skylights • Side-
lights • Borrow lights • Luminous ceilings • Protected play
areas • Sun shades • Canopies



HORTICULTURAL Greenhouses • Cold frames • Plant
screens • Showrooms • Hothouses



AGRICULTURAL Dairy barns • Implement sheds • Loaf-
ing barns • Poultry houses • Milk sheds • Workshops

Johns-Manville *Corrulux*

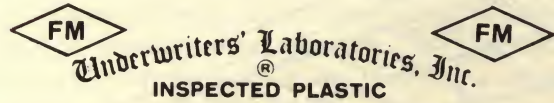
GRADES OF MATERIAL

STRUCTURAL—The most widely specified weight in the translucent panel field. Recommended for general daylighting use and in construction where building codes are applicable.

FUNCTIONAL—An economy weight material which has gained wide acceptance for patios, awnings, and other home applications.

HEAVY STRUCTURAL—A heavy weight material used where abnormal loading is to be expected or when excessive spans are desirable.

PYRO PANL—Functional and structural weight panels manufactured with special resins which will extinguish themselves when the source of flame is removed. For use in installations requiring Underwriters' Label or Factory Mutual approval. Complete Test Reports available.



FINISHES

GRANITIZED—A beautifully textured surface composed of minute jewel-like facets of weather-resistant resin. A premium finish for greatest erosion resistance.

SMOOTH—A glossy smooth, satin-like finish which resists dirt accumulation and creates unusual decorative effects. Made by a process which affords increased weather resistance.

SELECTION DATA

Grades of Material	Corrugation	Color*	Finishes	Lengths**	Widths***	Maximum Roof Span****
STRUCTURAL (Type I Panel)	1 1/4" x 1/4"	1, 2, 4, 5, 6, 7	GRANITIZED	8', 10', 12', ONLY	26", 34"	3' 0"
		1, 2	SMOOTH	8', 10', 12', ONLY	26", 34"	
	2 1/2" x 1/2"	1, 2, 3	SMOOTH	4' TO 12'	26", 27 1/2", 33 1/2", 40"	4' 0"
		1, 2	GRANITIZED	4' TO 12'	26", 27 1/2", 33 1/2", 40"	
		3, 4, 5, 6, 7, 8, 9, 10, 11, 12	GRANITIZED	8', 10', 12', ONLY	26", 27 1/2", 33 1/2", 40"	
		13, 14, 15, 16	GRANITIZED	8', 10', 12', ONLY	40"	
	FLAT	1, 2	GRANITIZED	2' TO 12'	24", 30", 32", 36", 44", 48"	SEE "NOTES"
		3, 4, 5, 6, 7, 8, 9, 11	GRANITIZED	4', 8', 10', 12' ONLY	44"	
	STEPDOWN 6 1/2"	1, 2	SMOOTH	2' TO 12'	30", 36", 44"	3' 0"
		5, 6, 7, 9, 11	GRANITIZED	8', 10', 12', ONLY	39 1/2"	
	4.2"	1, 2	GRANITIZED	4' TO 12'	42"	4' 6"
		2	SMOOTH	4' TO 12'	42"	
	2.67" x 7/8"	1, 2	GRANITIZED & SMOOTH	4' TO 12'	35"	4' 6"
	3" x 3/4"	2	GRANITIZED & SMOOTH	4' TO 12'	30 3/4"	4' 6"
	V-BEAM	2	GRANITIZED	8', 10', 12', ONLY	29"	5' 0"
	2.70"	2	GRANITIZED	4' TO 12'	33 1/2"	4' 0"
	5-V CRIMP	2	SMOOTH	8', 10', 12', ONLY	26"	3' 0"
	STRAN	1, 2	GRANITIZED	4' TO 12'	38"	3' 6"
	MANSARD	2	GRANITIZED	4' TO 12'	32 3/8"	
FUNCTIONAL (Type I Panel) THICKNESS — .045" (3/4") TOTAL WEIGHT — 6 OZ./SQ. FT. GLASS CONTENT — 1 1/2 OZ./SQ. FT. SHIPPING WEIGHT — .45 LBS./SQ. FT.	1 1/4" x 1/4"	1, 2	SMOOTH	8', 10', 12', ONLY	26"	2' 0"
	2 1/2" x 1/2"	1, 2, 6, 9, 11, 12	SMOOTH	8', 10', 12', ONLY	26", 40"	3' 0"
HEAVY STRUCTURAL (Type I Panel) THICKNESS — .09" (3/2") TOTAL WEIGHT — 12 OZ./SQ. FT. GLASS CONTENT — 3 OZ./SQ. FT. SHIPPING WEIGHT — .85 LBS./SQ. FT.	2 1/2" x 1/2"	1, 2	GRANITIZED & SMOOTH	5' 6" TO 12'	26", 27 1/2", 33 1/2", 40"	5' 0"
	4.2"	1, 2	GRANITIZED & SMOOTH	5' 6" TO 12'	42"	6' 0"
	FLAT	1, 2	GRANITIZED	2' TO 12'	24", 30", 32", 36", 44", 48"	SEE "NOTES"
		1, 2	SMOOTH	2' TO 12'	30", 36", 44"	
PYRO PANL (Type II Panel) Minimum Order — 1000 Sq. Ft. STRUCTURAL	2 1/2" x 1/2"	1, 2	GRANITIZED & SMOOTH	4' TO 12'	26", 27 1/2", 33 1/2", 40"	4' 0"
	2.67" x 7/8"	1, 2	GRANITIZED & SMOOTH	5' 6" TO 12'	33 3/4", 35"	4' 6"
	4.2"	1, 2	GRANITIZED & SMOOTH	5' 6" TO 12'	42"	4' 6"
	FLAT	1, 2	GRANITIZED	8', 10', 12', ONLY	30", 36", 44"	SEE "NOTES"
PYRO PANL — FUNCTIONAL	2 1/2" x 1/2"	1, 2	GRANITIZED	4' TO 12'	26", 33 1/2"	3' 0"

FOR EXPORT CORRUGATIONS OR SPECIAL CORRUGATIONS, COLORS, WIDTHS, GRADES ETC. CONTACT THE PRODUCT MANAGER.

WINDOW PANES

STRUCTURAL GRADE

FLAT 1, 2, 3

GRANITIZED

AND

SMOOTH

STANDARD INDUSTRIAL SIZES

14 3/8" x 17 3/8" 14 3/8" x 19 3/8" 15 3/8" x 19 3/8"
14 3/8" x 18 3/8" 14 3/8" x 20 3/8" 15 3/8" x 21 3/8"
14" x 20"

(For Other Sizes, Colors or Grades See Above)

Notes: Recommended maximum spans for flat glazing

Structural — 20" x 24"

Heavy Structural — 24" x 36"

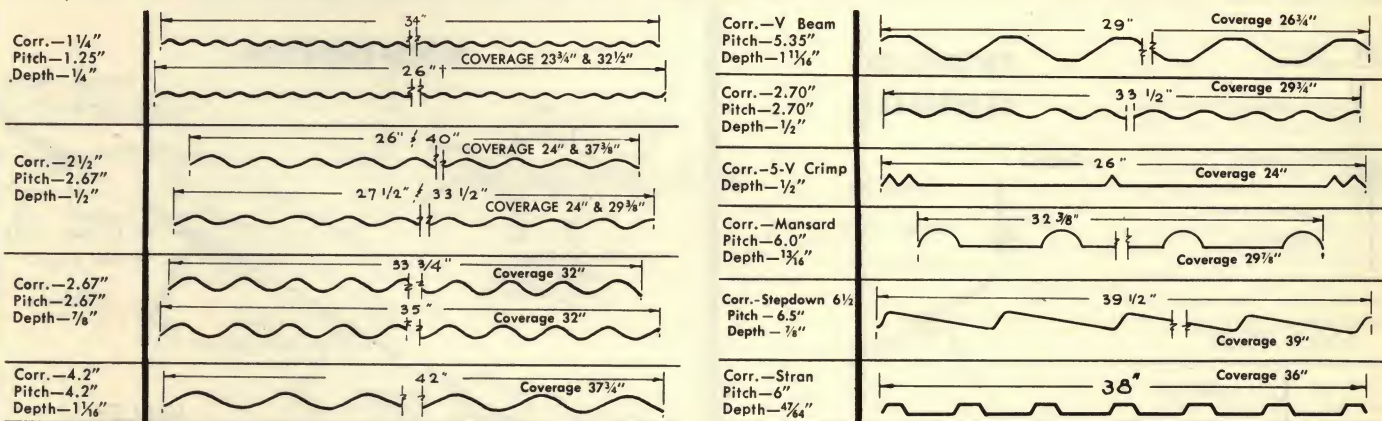
***Inquire for special wide widths

**CORRUGATED MATERIAL MANUFACTURED IN INCREMENTS OF 6" FLAT MATERIAL IN 12" INCREMENTS UNLESS SPECIFIED OTHERWISE. SPECIAL LENGTHS AVAILABLE ON ORDER.

****RECOMMENDED FOR UNIFORM LOADING OF 40 P.S.F. WITH A 2.5 FACTOR OF SAFETY (100 LBS./SQ. FT.) WHEN FASTENED IN ACCORDANCE WITH SPECIFICATIONS. FOR PROPORTIONATELY LIGHTER LOAD REQUIREMENTS. SPANS MAY BE INCREASED UP TO 20%.

Specifications and Product Data

STANDARD CORRUGATIONS



†Nominal, Actual Width 25 3/4", + or - 1/4".

COLOR CHART

Code	Color	Approx. Light Transmissions ¹		Approx. Radiant Heat Transmissions (Struct.)	
		Structural	Functional	Ultra-Violet ²	Infra-Red ³
1	Maxlite	81%	80%	13.8%	47.5%
2	Skylight Green	65%	70%	13.5%	34.4%
3	Sky Blue	58%	—	5.9%	30.9%
4	Sunlight Yellow	80%	—	22.6%	30.9%
5	Light Ivory	66%	—	1.3%	21.2%
6	Coral	45%	48%	3.9%	25.4%
7	Forest Green	56%	—	3.9%	25.9%
8	Awning Red	9%	—	1.1%	38.3%

Code	Color	Approx. Light Transmissions ¹		Approx. Radiant Heat Transmissions (Struct.)	
		Structural	Functional	Ultra-Violet ²	Infra-Red ³
9	Awning White	45%	64%	1.2%	11.1%
10	Awning Blue	25%	—	3.4%	29.9%
11	Awning Yellow	50%	60%	0.6%	12.4%
12	Surf Green	35%	—	1.3%	20.8%
13	Hunter Green	10%	—	1.8%	18.6%
14	Chartreuse	40%	—	0.7%	11.3%
15	Brown	10%	—	1.2%	35.1%
16	Black	—	—	—	—

SQUARE FOOTAGE CHART

Length	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"	126"	132"	138"	143"	144"
Width																				
26"	6.50	7.58	8.67	9.75	10.83	11.92	13.00	14.08	15.17	16.25	17.33	18.42	19.50	20.58	21.67	22.75	23.83	24.92	25.82	26.00
27 1/2"	6.88	8.02	9.17	10.31	11.46	12.60	13.75	14.90	16.04	17.19	18.33	19.48	20.63	21.77	22.92	24.06	25.21	26.35	27.31	27.50
30"	7.50	8.75	10.00	11.25	12.50	13.75	15.00	16.25	17.50	18.75	20.00	21.25	22.50	23.75	25.00	26.25	27.50	28.75	29.79	30.00
30 3/4"	7.69	8.97	10.25	11.53	12.81	14.07	15.38	16.66	17.94	19.22	20.50	21.79	23.06	24.35	25.63	26.91	28.19	29.47	30.53	30.75
33 1/2"	8.38	9.77	11.17	12.56	13.96	15.35	16.75	18.15	19.54	20.94	22.33	23.73	25.13	26.52	27.92	29.31	30.71	32.10	33.27	33.50
33 3/4"	8.44	9.85	11.25	12.66	14.06	15.47	16.88	18.29	19.69	21.10	22.50	23.91	25.31	26.72	28.13	29.54	30.94	32.35	33.51	33.75
34"	8.50	9.92	11.33	12.75	14.17	15.58	17.00	18.42	19.83	21.25	22.67	24.08	25.50	26.92	28.33	29.75	31.17	32.58	33.76	34.00
35"	8.75	10.21	11.67	13.13	14.58	16.04	17.50	18.96	20.42	21.88	23.33	24.79	26.25	27.71	29.17	30.63	32.08	33.55	34.76	35.00
36"	9.00	10.50	12.00	13.50	15.00	16.50	18.00	19.50	21.00	22.50	24.00	25.50	27.00	28.50	30.00	31.50	33.00	34.50	35.75	36.00
39 1/2"	9.88	11.52	13.17	14.81	16.46	18.10	19.75	21.40	23.04	24.69	26.33	27.98	29.63	31.27	32.92	34.56	36.21	37.85	39.23	39.50
40"	10.00	11.67	13.33	15.00	16.67	18.33	20.00	21.67	23.33	25.00	26.67	28.33	30.00	31.67	33.33	35.00	36.67	38.33	39.72	40.00
42"	10.50	12.25	14.00	15.75	17.50	19.25	21.00	22.75	24.50	26.25	28.00	29.75	31.50	33.25	35.00	36.75	38.50	40.25	41.71	42.00
44"	11.00	12.83	14.67	16.50	18.33	20.17	22.00	23.83	25.67	27.50	29.33	31.17	33.00	34.83	36.67	38.50	40.33	42.17	43.69	44.00

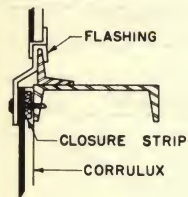
All Sizes Shown On This Chart Are Not Necessarily Standard—For Calculation Purposes Only.

HOW TO SPECIFY (For specific data, see "Selection Data")

- Panel shall be _____ grade.
- Corrugations shall be _____ (1 1/4" x 1/4", etc.), and, where applicable, shall nest easily in standard corrugated _____ (metal, asbestos).
- Width of panels shall be _____ (or) the same as the corrugated _____ (metal, asbestos) to be used; length shall be _____, (or) as shown on drawings (or) in specification.
- Thickness shall be _____; average weight _____ oz./sq. ft.; glass content _____ oz./sq. ft.
- Surface finish shall be Granitized, (or) Smooth.
- Color shall be _____, with an approximate light transmission of _____% when tested in accordance with recommended procedure (see "Color Chart").
- Panel shall withstand at least 100 pounds per square foot uniform loading over recommended spans, when tested in accordance with standard procedure adopted by the Society of Plastics Industry.
- Panels shall be of uniform texture, and cross section, free of unsaturated areas, objectionable pits, lumps or foreign matter.
- Lappage, Fastening and Weather Sealing shall be in accordance with manufacturer's recommendations (see "General Recommendations").

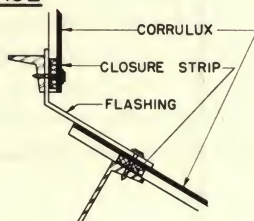
Johns-Manville *Corrulux*®

WINDOW SILL

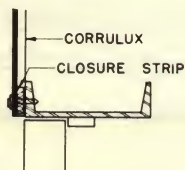


typical details

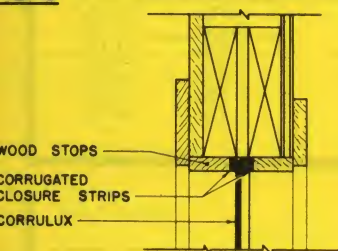
BASE



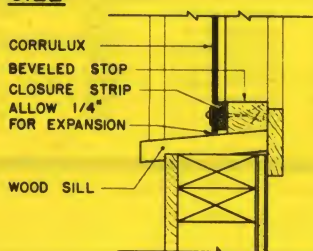
DOOR HEAD



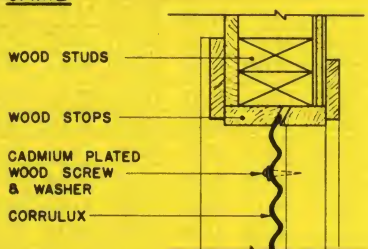
HEAD



SILL



JAMB



lap details

UP AND DOWN

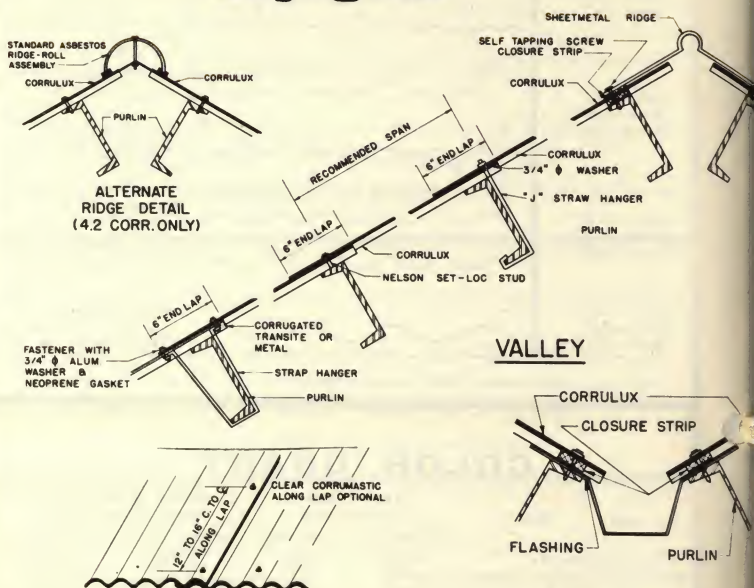
BOTH DOWN

GENERAL RECOMMENDATIONS Corrulux must never be exposed to moisture prior to installation. Always store Corrulux sheets either upright or on edge in order to prevent accumulation of moisture between sheets which may cause water marks. Never pile flat.

PREPARATION Corrulux panels are shipped with a protective film on each side. This film should be removed with a slow diagonal pull and panels wiped clean before installation.

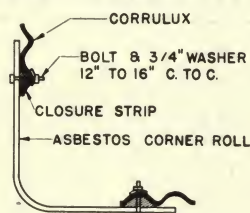
CUTTING Corrulux may be cut with a power saw, hand saw or hack saw. The saw teeth should be fine with no set. For power saws an abrasive disc (fabric-reinforced for safety) or a Perma-Grit blade as manufactured by

skylights

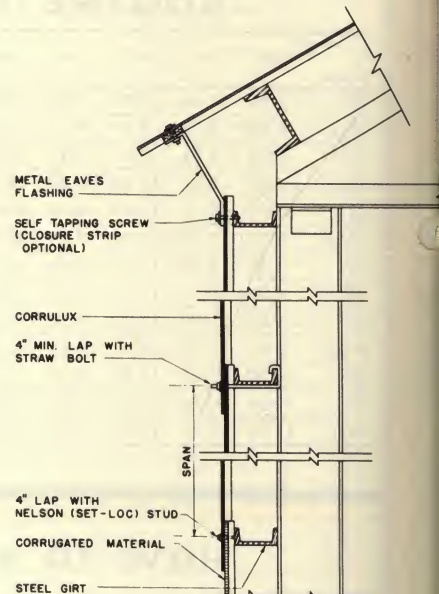
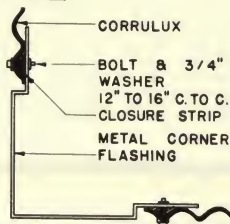


sidelights

CORNER



CORNER

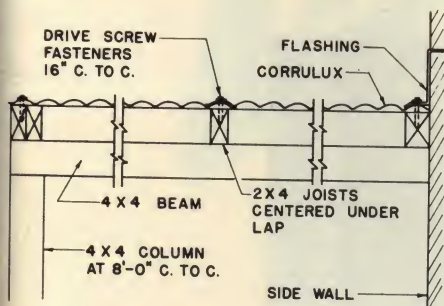


Skil Corporation, are recommended.

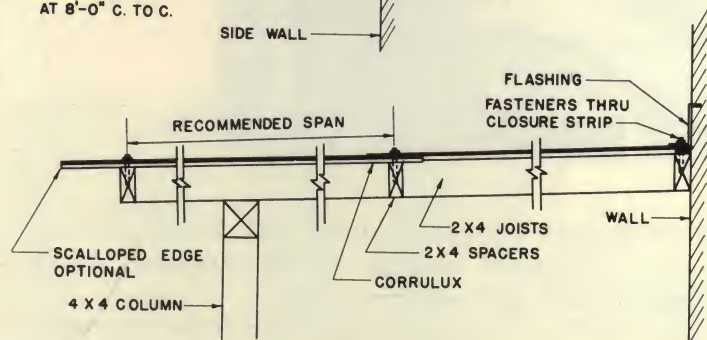
FASTENING Corrulux may be fastened with nails, screws or bolts. Holes for nails or screws should be pre-drilled slightly smaller than fasteners. Fasteners may be the same type as recommended by the manufacturer of the material nesting with the Corrulux, except lead head fasteners which are not recommended for the securement of Corrulux. Do not overdrive or overtighten self-tapping screws. A minimum of 5 fasteners per sheet is recommended along the transverse supports. **NOTE:** For exterior application metal backed neoprene washers should be used to insure a good weather seal.

WEATHER SEALING At ridge and eaves, use closure strips and metal

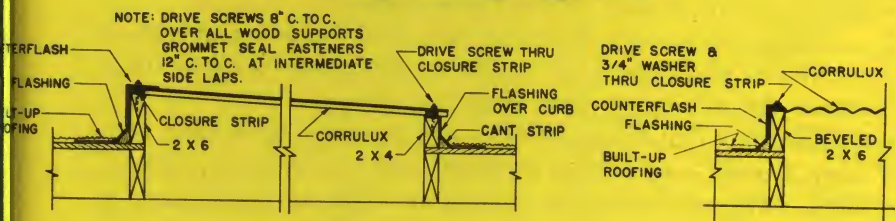
Installation Details I



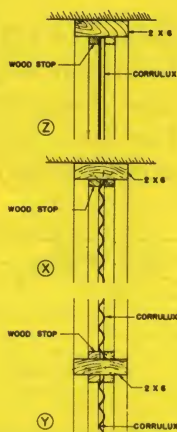
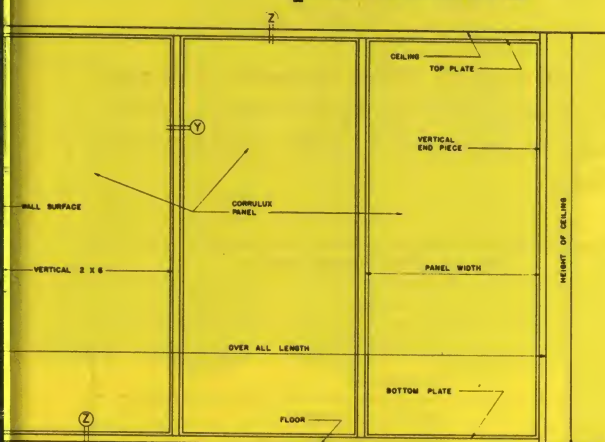
patio roofs



built-up skylights



partitions



flashing according to standard practice. At intermediate end laps use beaded caulking. Side laps should be sealed with plastic sealing strips. Beaded caulking or Corrumastic are also acceptable.

WINDOW GLAZING Standard glazing procedures may be followed when installing flat glazing. If vibrations or wind pressures are expected, plastic type steel sash putty should be used. **IMPORTANT:** Heavy gauge glazing clips are recommended.

REFINISHING Corrugulux has superior erosion resistance, but for best appearance and to retain maximum light transmission, panels subject to severe weathering may be refinished with J-M Corrucote, a fast drying acrylic lacquer. Remove loose fibers and dirt with fine steel wool. Wash with a mild detergent and water before refinishing.

Accessories



Plastic Sidelap Sealer A transparent, flexible sealing strip. Effectively seals side laps. Easy to use. Clear vinyl, continuous 50' rolls. Available in 1", 2", 3" widths.



Hex-Head Fasteners, Self-Tapping For fast, economical installation. Cadmium plated, assembled with metal-backed neoprene washer. Boxes of 250 and 1,000 units.



Corrumatic Dispensers Corrumastic (45% solids) packaged in squeeze tubes for fast, economical application. 1/10 gallon per tube. Coverage: up to 35 lin. ft./tube.



Aluminum Weather Sealing Nails 1 3/4" length, spiral shank with neoprene washer attached under head. Boxes of 100 and 525 nails.



Metal-Backed Neoprene Washers For attachment to #10 or 3/16" fasteners to insure weather tight installations. (3/8" O.D. x .220" I.D.) Packaged in boxes of 100, 250 and 1,000 washers.



Heavy Gauge Glazing Clips Recommended for all Corrugulux Flat Pane installations. Boxes of 1,000 clips.



Corrucote A fast-drying acrylic lacquer to refinish and renew weather plastic panels or to reduce light transmission in new installations. Recommended application by spraying. Coverage approx. 70 sq. ft./qt. Available in quart or gallon containers. Colors:



Beaded Caulking Used to increase weather tightness of end laps or wherever weather sealing is desirable. (Strips 1/4" diameter, continuous lengths. 80' per roll.)



Corrumastic A clear mastic for sealing of laps. May be used to seal plastic to plastic or to other nesting materials. Coverage: approx. 40 lin. ft./qt. Quart or gallon containers.



Aluminum Flashing Used as recommended for nesting materials and for weather sealing exterior installations. Plain and corrugated ridge rolls and flashing for end and side wall applications are available.



Corrucote Spray Corrucote, as shown, packaged in 16 oz. aerosol containers for faster, more economical application. Coverage: approx. 30 sq. ft./container. Clear only.



Aluminum Molding Extruded and fabricated molding specifically designed for attractive, economical corrugated panel installations.



Grommet-Seal Fasteners For fastening Corrugulux to Corrugulux or to nesting materials. White neoprene grommet, 3/4" aluminum bolt, with nut. Boxes of 250 fasteners.

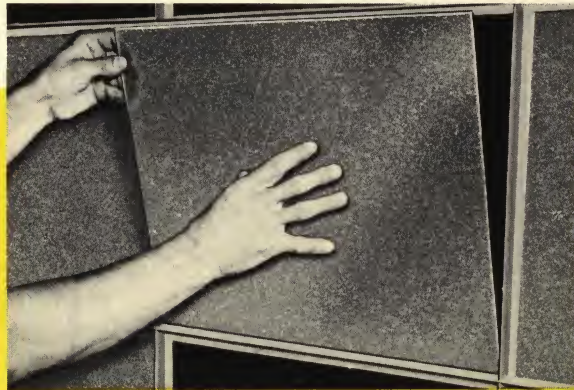


Closure Strips Used for weather sealing ends when panels do not lap other corrugated materials and for proper fastening and sealing of panel side laps. Available in most common corrugations.

Johns-Manville *Corrulux*[®]

(SHATTERPROOF)

FLAT PANES



Johns-Manville shatterproof Corrulux Flat Panes are the logical and economical solution to the frequent, costly replacement of ordinary window panes.

Corrulux Flat Panes are composed of a superior, tough, weather-resistant plastic reinforced with thousands of high strength glass fibers. They defy breakage associated with glass factory windows caused by vandalism, accidental damage and typical factory vibrations.

Being translucent, Corrulux Flat Panes admit and diffuse daylight, eliminate harsh glare and provide privacy. They resist the effects of most industrial fumes.

Corrulux Flat Panes come in pre-cut sizes to fit most window frames—or can be trimmed with a saw to any special size. They are available in smooth finish or granitized, in structural and heavy structural grades. Easy to install—no special glazing skill is needed.

Shatterproof!

Steel ball weighing 2.06 pounds (2½" diameter) released from 4 feet dropped on ordinary Structural Grade Corrulux Flat Pane. No damage to the panel and the ball bounced approximately 1½ feet.

	STRUCTURAL GRADE	HEAVY STRUCTURAL GRADE
Average weight	8 oz./sq. ft.	12 oz./sq. ft.
Average glass content	2 oz./sq. ft.	3 oz./sq. ft.
Surface finish	Granitized or smooth	Granitized
Colors	Maxlite, Skylight Green, Sky Blue	Maxlite, Skylight Green, Sky Blue
Sizes	Available in all standard window sizes	Available in all standard window sizes

JOHNS-MANVILLE

 PRODUCTS

Johns-Manville

22 E. 40th Street • New York 16, N. Y. Sales offices in all large cities

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